Image Cover Sheet

CLASSIFICATION UNCLASSIFIED	SYSTEM NUMBER 508438
TITLE ISSUE PAPER ON TASK IMPACT ANAL ONE TRANSITION TO TASK	LYSIS: IMPACT ON RANK STAGNATION OF A DAY
System Number: Patron Number: Requester:	
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maintaining the data needed, and c including suggestions for reducing	lection of information is estimated to ompleting and reviewing the collecti this burden, to Washington Headquuld be aware that notwithstanding an DMB control number.	on of information. Send comment arters Services, Directorate for Inf	s regarding this burden estimate of cormation Operations and Reports	or any other aspect of the 1215 Jefferson Davis	nis collection of information, Highway, Suite 1204, Arlington			
1. REPORT DATE DEC 1991		2. REPORT TYPE		3. DATES COVERED 00-00-1991 to 00-00-1991				
4. TITLE AND SUBTITLE				5a. CONTRACT	NUMBER			
-	k Impact Analysis:	Impact on Rank St	tagnation of a	5b. GRANT NUN	ИBER			
Day One Transition	n to Task			5c. PROGRAM E	LEMENT NUMBER			
6. AUTHOR(S)				5d. PROJECT NU	JMBER			
				5e. TASK NUMB	BER			
				5f. WORK UNIT	NUMBER			
	ZATION NAME(S) AND AE ada - Ottawa,3701 (tawa, Ontario	8. PERFORMING ORGANIZATION REPORT NUMBER					
9. SPONSORING/MONITO	RING AGENCY NAME(S) A		10. SPONSOR/M	ONITOR'S ACRONYM(S)				
				11. SPONSOR/M NUMBER(S)	ONITOR'S REPORT			
12. DISTRIBUTION/AVAII Approved for publ	LABILITY STATEMENT ic release; distributi	on unlimited						
13. SUPPLEMENTARY NO	OTES							
Advancement thro Manpower Analysi	mination of the Non ugh Skill and Know is (D Man A) in sup e short to medium to	ledge (TASK) scen	ario was complete analysis of TASK	d by the Dire	ectorate of mer of 1991. This			
15. SUBJECT TERMS								
16. SECURITY CLASSIFIC	ATION OF:		17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON			
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	Same as Report (SAR)	37				

Report Documentation Page

Form Approved OMB No. 0704-0188

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DEPARTMENT OF NATIONAL DEFENCE CANADA

OPERATIONAL RESEARCH AND ANALYSIS ESTABLISHMENT DIRECTORATE OF MANPOWER ANALYSIS

D MAN A STAFF NOTE 7/91

ISSUE PAPER ON TASK IMPACT ANALYSIS:
IMPACT ON RANK STAGNATION
OF A DAY ONE TRANSITION TO TASK

by

P. BENDER and S. ISBRANDT

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Abstract

A preliminary examination of the Non Commissioned Member (NCM) population under a Trade Advancement through Skill and Knowledge (TASK) scenario was completed by the Directorate of Manpower Analysis (D Man A) in support of the impact analysis of TASK over the summer of 1991. This paper addresses the short to medium term consequences on rank stagnation of a "day one" transition to a TASK structure.

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ISSUE PAPER ON TASK IMPACT ANALYSIS: IMPACT ON RANK STAGNATION OF A DAY ONE TRANSITION TO TASK

Introduction

- 1. A preliminary examination of the Non Commissioned Member (NCM) population under a Trade Advancement through Skill and Knowledge (TASK) scenario was completed by the Directorate of Manpower Analysis (D Man A) in support of the impact analysis of TASK over the summer of 1991. To provide a basis for comparison the same NCM population was similarly projected both under the current career progression structure as well as under a proposed TASK structure.
- These population projections have highlighted several issues relevant to TASK and its implementation. A series of issue papers is being prepared by D Man A to describe significant outcomes or concerns associated with the preliminary projections. This paper addresses the short to medium term consequences on rank stagnation of a "day one" transition to a TASK structure.

TASK

- 3. TASK is being investigated as an alternate career progression structure for NCMs. Within TASK, career progression would not only be upwards in rank as in the current structure, but also laterally in distinct skill levels. Many aspects of TASK need to be addressed by the Project Management Office (PMO) prior to a go/no-go decision on its implementation. The projections done by D Man A reflect many of the career progression related aspects of TASK. Other facets such as costing and training implications are being addressed separately by PMO TASK.
- 4. PMO TASK is required to provide a detailed impact analysis of TASK for all relevant aspects in each and every NCM occupation. For the impact analysis of TASK on career progression D Man A was tasked to develop models in order to project the occupations for a period of 15 years. The model input was based on June 1989 establishment data as derived from PMO TASK's line by line occupational analysis as well as June 1989 NCM population data. Details of the methodology and data used in making the projections can be found in reference 1.
- 5. Implementation of TASK will bring many changes to career progression for NCM members in most Military Occupations (MOC). The predominant difference with current career progression is related to the subdivision of rank by qualification levels. This will allow some individuals to progress upwards in rank while others could progress laterally to higher qualification levels.

Assumptions Used In The Preliminary Impact Analysis

- 6. D Man A was requested, for the purpose of the TASK Impact Analysis, to model scenarios using particular assumptions which are critical to the issues which result from the modelling projections. These assumptions include:
 - a) vested right to rank. Not only are current Master Corporals given the rank of TASK Corporal, but current Corporals are given a TASK Corporal rank level, even though they might have to offset a TASK Pte(J) position;
 - b) "pull" promotion to Pte(J). The TASK scenarios do not include "push" promotion to the Pte(J) level. Rather, the level is controlled by a Preferred Manning Level (PML); and
 - c) no restrictions on recruitment at entry.

The extent and significance of the issue analyzed in this paper may depend in large part on the validity of these assumptions. Nevertheless, some of the issue effects may still be very significant even if the above assumptions are changed.

Issue

The major structural difference brought about through the implementation of TASK is the introduction of the rank of Private Journeyman (Pte(J)) and the elimination of the Master Corporal (MCpl) rank. The structure is shifted downward but members retain This elimination of the MCpl rank, in a vested right to rank. conjunction with the large number of members at the Cpl rank because of the current promotion "push" policy, results in a number of members at the TASK Cpl and Pte(J) rank levels in excess of the PML. For the purpose of tracking the excess number of corporals at the Pte(J) rank this population of "original corporals" was designated as "O_CPL" in modelling TASK. Details on the magnitude and duration of this "O_CPL" effect is documented in a companion paper (reference 2). The presence of "O_CPL"s either in Pte(J) positions or as a surplus, has an impact on many career progression This issue paper examines the effect the related parameters. "O_CPL"s have on both the Cpl Time In Rank (TIR) and the build up of promotions to the $Pte(\bar{J})$ rank, on conversion to the TASK structure.

"O CPL" Effect on Promotions to Private Journeyman

8. An analysis of the impact of the "O_CPL" vested right to rank on the promotions to the Pte(J) level will be presented in this section. The discussion will centre on the NCM population

overall, while individual MOC characteristics are given at Annex A. The analysis will focus on three measures:

- the number of years to first Pte(J) promotion, from Pte(T);
- the number of years till 50% of Pte(J) Preferred Manning Level (PML) is occupied by members (other than O_CPL) at the Pte(J) rank; and
- the number of years till 100% of Pte(J) PML is occupied by members (other than O_CPL) at the Pte(J) rank.
- 9. Figure 1 presents the cumulative distribution of the number of MOCs over time for all three measures. The data for Figure 1 is presented in tabular format at Annex B. The distribution plotted at Figure 1 shows projected values for time periods 0 through to 5, for year 10 and for year 15¹. Figure 1 illustrates that 40.6% of the MOCs experience the first promotion within the first year after transition, another 7.8% in the second year for a total of 48.4%, etc.
- 10. From the Figure it can be seen that the largest spread in the three measures occurs in year 5. By the end of year 5, 84.4% of the MOCs have seen a first promotion to the Pte(J) level, while 53.2% of the MOCs show a Pte(J) population of 50% of PML or more. This contrasts with only 11.1% of the MOCs having attained full Pte(J) representation. By year 10 all MOCs with Pte(J) positions (90% of all MOCs) have achieved a first promotion to this rank. Most MOCs (53.1%) achieve full Pte(J) level between years 6 and 10. By the end of year 15 an additional 10% of the MOCs will attain the Pte(J) PML leaving still 11 MOCs (or 17.2%) short of the PML. Detailed results show that many of these 11 MOCs exhibit career flow problems resulting from their structure.

It should be noted that model results were not generated for the intermediate years from 6 to 9 and 11 to 14. As a result the data for years 10 and 15 really indicate that the event occurred sometime between years 6 and 10 and 11 and 15 respectively.

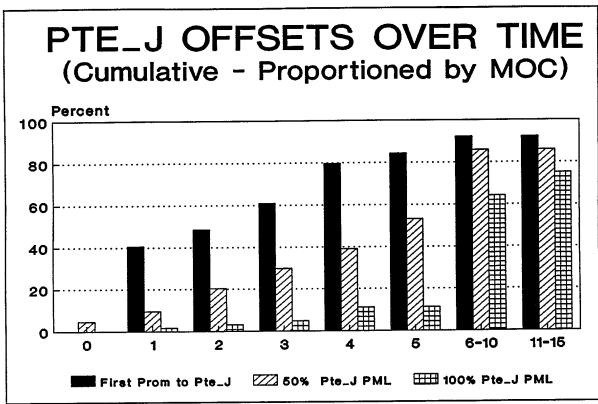


Figure 1 - Pte(J) Offsets

"O CPL" Effect on Corporal Time in Rank

- 11. In this section an impact of the "O_CPL"s on the TASK Cpl TIR will be presented. The discussion will centre on specific MOCs to portray the range of results. Details on all MOCs can be found at Annex A.
- Table 1 provides a breakdown of NCM MOCs by the Cpl average TIR in year 10. For instance MOC 011 has a Cpl average TIR in year 10 of 9.7 years thereby placing it in the 7.5 to 9.9 year category. Year 10 was chosen for the Table since it generally exemplifies the highest average time in rank values. The Table shows the large variation in the average TIR ranging from as little as 1.7 years for MOC 111 to 15.4 years for MOC 651. In general the MOCs with an average TIR value in excess of 10 years are typically those MOCs exhibiting a large "O_CPL" bubble in excess of 125% of Pte(J) PML (see reference 2).

AVERAGE TIME IN RANK	MOC ²
0 - 2.4	111
2.5 - 4.9	273, 631, 881
5.0 - 7.4	065, 081, 091, 131, 141, 171, 231, 274, 275, 276, 331F, 435F, 811, 921, 933
7.5 - 9.9	011, 021, 022, 042F, 121, 151, 161, 191, 224F, 262, 286F, 314F, 321, 421, 625F, 717F, 725F, 831, 841, 851
10.0 - 12.4	031, 052, 181, 211, 291, 411, 441, 525F, 541, 551, 563, 615F, 861, 862, 911
12.5 - 14.9	212, 341F, 513F, 531, 561, 562, 572, 935
15.0 +	651
N/A	871

Table 1. MOC Breakdown by TASK CPL Average Time in Rank in Year 10.

13. A specific MOC (935) was selected to illustrate the evolution of the CPL rank stagnation as caused by the "O_CPL" bubble.

² In the table the "F" suffix on some MOCs designates an occupational group (eg two feeder MOCs joining into one terminal MOC). Details on the modelling of related occupational groups can be found in a related paper of this series (Reference 1).

				YEAR	•				
	1	2	3	4	5	• • •	10	• • •	15
TASK Cpl Avg Time in Rank	6.3	7.1	7.9	8.9	9.9		14.2	!	1.8
Current MCpl Avg Time in Rank	4.7	4.8	4.9	4.9	4.9		4.1	-	4.7

Table 2. Average Time in Rank at the TASK Cpl and Current MCpl ranks.

- 14. Table 2 compares the projected average TIR for the TASK Cpl rank and the current MCpl rank. It can be seen from the Table that under the current structure the flow through the MCpl rank is reasonably steady resulting in a fairly constant average TIR at around 5 years. This differs markedly from the average TIR for TASK Cpls which steadily increases through year 10 and drops dramatically to a much lower average in year 15.
- The increase in the average TIR at the TASK Cpl rank stems from the presence of "O_CPL"s. As modelled no promotions of Pte(J) to the Cpl rank occurs until the bubble is dissipated. As a result, the "O_CPL"s gradually move from Pte(J) positions to TASK Cpl positions thereby lengthening their dwell at the Cpl rank. In year 1 there are 501 TASK Cpls for a total PML of only 115. By year 10, through attrition and promotions to Sergeant (Sgt), the TASK Cpls number 178. It is likely that the average Cpl TIR will continue increasing after year 10 until the Cpl population falls to its PML of 115. Basically, the TASK Cpl average TIR increases while the excess Cpls (including O_CPLs) are promoted or attritted, and cannot start decreasing until it is necessary to promote a number of Pte(J) members, who then receive a TIR of zero.
- 16. Several related factors contribute to the sudden drop by year 15 in the average TIR. All of these factors are related to the natural promotion of Pte(J) to the rank of Cpl resulting from vacancies at that rank due to attrition and promotions to Sgt. Although there are both voluntary and involuntary types of attrition the large pull on the Pte(J) is caused by the fact that many of the Cpls are beyond the promotion window and eventually fall on Continuing Engagement (CE) or Extension (EXT) before leaving involuntarily. Details on the model parameters can be found in reference 1 and a discussion of the impact of the "O_CPL" bubble on the conversion process can be found at reference 3.

Experience Profiles

17. The effect of the "O_CPL" presence in the aging of the TASK Cpls is shown in two experience profiles. Figures 2 and 3 show the years of service profiles for MOC 935 under the TASK scenario, for model years 1 and 10, respectively.

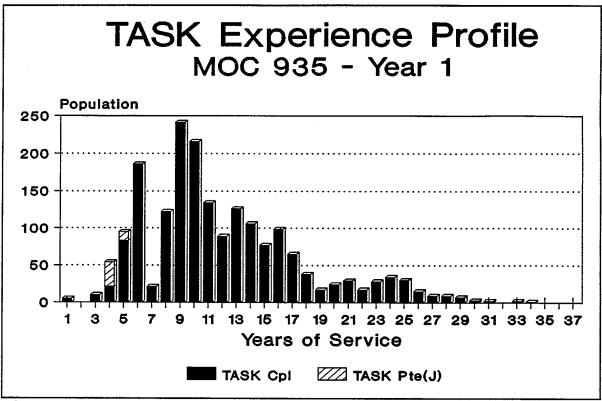


Figure 2 - MOC 935, TASK Year 1 Experience Profile

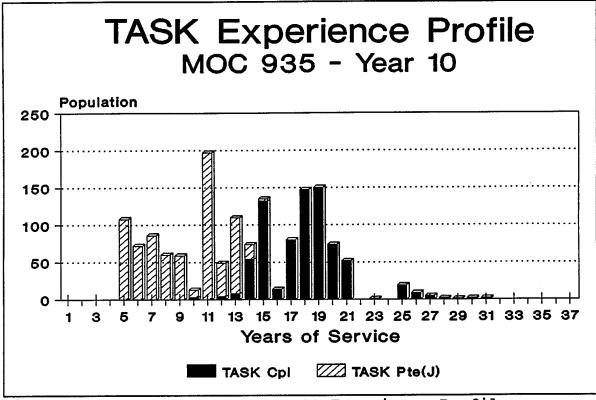


Figure 3 - MOC 935, TASK Year 10 Experience Profile

- 18. The "O_CPL" presence as TASK Cpls in year 1 is quite evident in Figure 2. In Figure 3, representing year 10, the number of TASK Cpls is substantially lower as the rank's PML is approached. A significant aging of the Cpl rank occurs as the number of TASK Cpls gradually decreases, until the strength reaches the PML and new members are promoted in.
- 19. In addition, as members come into the Pte(J) rank, they have no opportunity to progress to the Cpl rank, and an aging of the Pte(J) rank occurred. Over time, members may have to be released at the Pte(J) rank level to ensure that sufficient younger members will be available for promotion.
- 20. For purposes of comparison, experience profiles for the current career progression system are included as Figures 4 and 5. The dramatic "O_CPL" aging effect is noticeably absent from the profiles for both years 1 and 10.

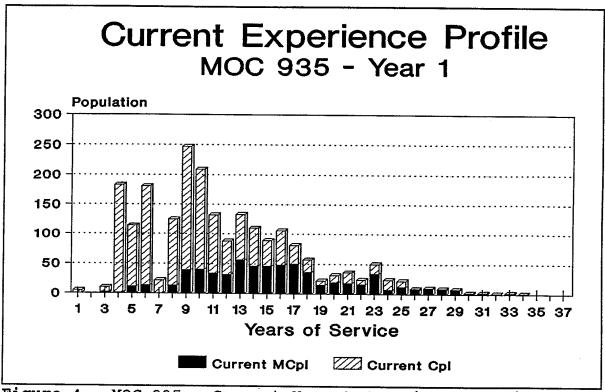


Figure 4 - MOC 935. Current Year 1 Experience Profile

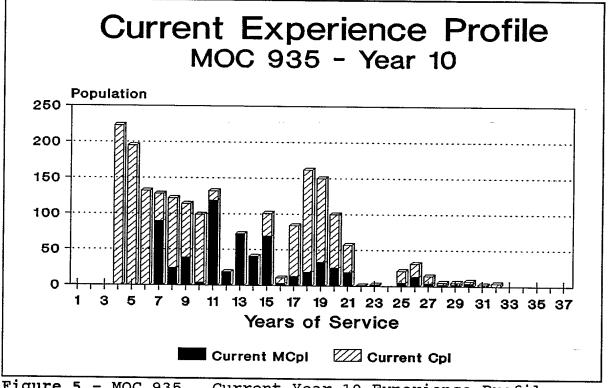


Figure 5 - MOC 935. Current Year 10 Experience Profile.

Conclusions

- 21. As a result of model assumptions provided by PMO TASK, the presence of "O_CPL"s resulting from a "day one" transition to TASK has an impact on the timing of the promotions to Pte(J) and leads to increases in the Cpl average TIR. As a result, members recruited during this time period will not be able to reach the MWO rank. However, even under vastly different assumptions, for the implementation of TASK this aging effect may still have very serious consequences.
- 22. The transition effect of the "O_CPL"s in most MOCs is significant and sometimes very large. Consequently the true impact of TASK on career progression is masked by the distortions created by the bubble. Even more, the magnitude of this transition effect can be exacerbated under a force reduction scenario.
- 23. It is evident that any implementation of TASK must address the "O_CPL" problem. It may be necessary to examine innovative ways of reducing the magnitude of the problem prior to or during a transition to a TASK structure.
- 24. Should the "O_CPL" problem not be adequately addressed in an implementation of TASK then it may be necessary to consider the impact of promoting large numbers of much older individuals at the Cpl and Sgt ranks. This would result in an aging of MOC experience profiles possibly leading to downstream problems of other sorts.

REFERENCES

- 1. "TASK Impact Analysis Methodology and Parameters for Modelling of a Day One Transition to TASK" (in preparation).
- "Issue Paper on TASK Impact Analysis: Impact of Vested Rights to Rank on a Day One Transition to TASK", D Man A Staff Note 6/91, by P. Bender and S. Isbrandt.
- "Issue Paper on TASK Impact Analysis: Effect of Current Engagement Conversion Policy Following a Day One Transition to TASK", D Man A Research Note 4/92, by P. Bender and S. Isbrandt.
- 4. "Issue Paper on TASK Impact Analysis: Observations on the Line by Line MOC Analysis as Used for Modelling TASK", D Man A Research Note 3/92, by P. Bender and S. Isbrandt.

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ANNEX A

MOC		1	2	3	YEAR 4	5	• • •	10	15
011	1st PTE_J 50% OFFSET Average TIR:	3 5	100%	6-10					
TASK CPL CURRENT MCPL	TASK CPL			5.4 3.3				9.7 6.3	3.0 5.4
021	1st PTE_J 50% OFFSET Average TIR:	3 0	100%	6-10					
	TASK CPL CURRENT MCPL	3.4 1.7		5.2 2.9				8.7 5.8	11.2 5.6
022 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	1 1	100%	3					
	TASK CPL	3.2 1.8	4.1	5.0 3.3	5.5 4.0			8.7 7.3	6.2 4.4
50%	1st PTE_J 50% OFFSET	1 2	100%	6-10					
	Average TIR: TASK CPL CURRENT MCPL	4.1 2.7		6.1 3.8				10.6 5.8	3.7 5.4
042F	1st PTE_J 50% OFFSET	1 3	100%	6-10					
	Average TIR: TASK CPL CURRENT MCPL	3.9 1.9	4.9 2.5	6.1 2.9	7.2 3.6			8.8 4.4	2.5 3.3
052	1st PTE_J 50% OFFSET	1 5	100%	6-9					
	Average TIR: TASK CPL CURRENT MCPL		5.6 3.9	6.6 4.2	7.7 3.9			11.1 4.4	8.5 4.9
065	1st PTE_J 50% OFFSET	1	100%	4					
	Average TIR: TASK CPL CURRENT MCPL			5.4 3.2				5.8 4.1	4.0 3.6

MOC		1	2	3	YEAR 4	5	•••	10	15
081	1st PTE_J 50% OFFSET Average TIR:	NIL NIL							
	TASK CPL CURRENT MCPL	2.4		3.3 2.4				5.1 4.7	5.3 4.8
091 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	NIL								
		4.1	4.6 3.3				6.8 5.8	4.0 3.4	
111 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	1 3	100%	6-9					
			5.4 0.8				1.7 0.9		
121 1st PTE_J 50% OFFSET Average TIR:		1 2	100%	4					
	TASK CPL CURRENT MCPL			7.8 2.3				8.8	4.8 1.1
131	1st PTE_J 50% OFFSET Average TIR:	NIL							
	TASK CPL CURRENT MCPL	4.6 5.5		6.4 5.5				6.1 6.6	
141	1st PTE_J 50% OFFSET Average TIR:	1	100%	6-10					
	TASK CPL CURRENT MCPL	2.5 0.8		4.5 2.6				5.4 1.4	2.8 1.0
151	1st PTE_J 50% OFFSET Average TIR:	1 2	100%	2					
	TASK CPL CURRENT MCPL			5.6 2.0				7.6 1.5	2.3 1.0
	1st PTE_J 50% OFFSET Average TIR:	1 4	100%	NIL					
	TASK CPL CURRENT MCPL	4.9 2.0	5.9 2.3	6.7 2.6	7.6 2.6	8.5 3.3		7.6 5.2	

MOC		1	2	3	YEAR 4	5	•••	10	15
171	1st PTE_J 50% OFFSET Average TIR:	1 3	100%	NIL					
TASK CPL CURRENT MCPL	TASK CPL	4.2	5.1 2.7	6.1 2.7	7.0 3.2			6.9 4.5	3.8 3.3
181 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	4 6 - 9	100%	6-9					
		4.7 3.4	5.5 3.1	6.4 3.3	7.4 3.3			12.2 3.7	1.1 3.6
191 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	1 2	100%	6-10					
	TASK CPL	2.5 1.2		4.4	5.4 3.4			8.4 6.3	6.6 3.6
211 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	3 5	100%	6-9					
	TASK CPL			6.1 4.4	6.9 4.5			11.3 7.0	11.2 4.5
212		6 - 9 6 - 9	100%	6 - 9				-	
	TASK CPL CURRENT MCPL			8.0 4.7	9.0 4.9			14.0 4.5	1.0 4.1
224F	1st PTE_J 50% OFFSET Average TIR:	2 6-10	100%	6-10					
	TASK CPL			6.7 4.1	7.8 4.0			9.9 4.9	3.1 3.6
231	1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	2 4	100%	6-9					
		5.8 5.7	6.6 4.5	7.2 4.7	7.7 4.2	8.4 3.3		6.3 3.3	
262	1st PTE_J 50% OFFSET	1 2	100%	6 - 9					
	Average TIR: TASK CPL CURRENT MCPL	3.2 2.3	4.2	5.1 3.5	6.1 4.1	7.2 4.3		9.2 6.3	2.3 5.1

MOC		1	2	3	YEAR 4	5	•••	10	15
273	1st PTE_J 50% OFFSET Average TIR:	1 0	100%	1					
TASK CPL CURRENT MCPL	1.9	2.9 1.0	3.7 1.0				3.5 5.0	3.5 5.5	
274 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	1 4	100%	6-10						
		4.6 2.6			7.7 2.6		5.7 3.8	1.8	
275 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	1 3	100%	6-9						
	3.7 1.8	4.9	5.9 2.7	7.1 3.1	8.2 2.9		6.5 4.2	1.4 4.1	
276 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	1 .	100%	4						
		3.9			5.0 3.8		6.4 5.4	2.0 2.5	
286F	1st PTE_J 50% OFFSET Average TIR:	1 3	100%	6-10					
	TASK CPL CURRENT MCPL		5.3 1.8					7.6 4.5	2.5 3.5
291	1st PTE_J 50% OFFSET Average TIR:	1 2	100%	11-1	5				
	TASK CPL CURRENT MCPL		5.6 4.1					12.4 6.3	
314F	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%	NIL					
	TASK CPL CURRENT MCPL		4.6 2.4			7.5 4.4		8.9 5.3	
321 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	1 6-9	100%	6-9					
		4.4 2.6					9.3 4.3		

MOC		1	2	3	YEAR 4	5	•••	10	15
331F	1st PTE_J 50% OFFSET Average TIR:	2 NIL	100%	NIL					
	TASK CPL CURRENT MCPL			5.2 4.0	6.3 4.2			6.6 5.3	1.4 4.0
341F	1st PTE_J 50% OFFSET Average TIR:	6-10 NIL	100%	NIL					
	TASK CPL CURRENT MCPL			7.2 2.2	8.1 2.9			14.2 2.5	
411	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%	10-1	5				
	TASK CPL CURRENT MCPL			7.7 5.3		9.7 6.1		11.6 4.0	2.8 3.5
1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET	1 4	100%	6-10					
			6.7 3.8	7.9 4.7			8.6 5.5	2.9 2.4	
435F	1st PTE_J 50% OFFSET Average TIR:	1 4	100%	NIL					
	TASK CPL CURRENT MCPL			5.5 3.5	6.4 3.9			6.8 6.2	2.6 3.1
441	1st PTE_J 50% OFFSET Average TIR:	1 5	100%	NIL					
	TASK CPL CURRENT MCPL	4.9 1.0			8.2 3.0			12.0 5.1	3.0 3.7
513F		6-10 6-10	100%	11-15	5				
		5.1 3.3	6.2 3.3	7.3 3.7	8.3 3.9	9.3		14.2 5.3	2.8 4.9
525F	1st PTE_J 50% OFFSET Average TIR:	3 5	100%	6-10					
		4.4 3.7				8.5 4.3		11.5 5.5	

мос		1	2	3	YEAR 4	5	•••	10	15	
531	50% OFFSET	6 - 9 6 - 9	100%	11-14	11-14					
	Average TIR: TASK CPL CURRENT MCPL	5.5 4.2	6.6 4.3	7.4 4.2	8.5 4.1	9.5 4.1		14.2 4.7	4.0	
541	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%	6-10						
	TASK CPL CURRENT MCPL	6.0 4.9	7.0 4.9	8.2 4.9	9.2 4.8	10.2 4.1			2.7 4.5	
551	1st PTE_J 50% OFFSET Average TIR:	3 5	100%	6-10	-					
	TASK CPL	4.3							4.5 6.3	
561 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCP	50% OFFSET	4 6-10	100%	6-10						
		7.3 3.6						13.4 3.7	2.4 3.4	
562	st PTE_J 0% OFFSET verage TIR:	4 6 - 10	100%	6-10						
	TASK CPL	8.1 6.0			11.0 6.6			13.6 3.1	2.5 3.4	
563	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%	6-10						
	TASK CPL CURRENT MCPL	7.4 3.9	8.6 4.0	9.4 3.9	10.4	11.4		12.3 3.7	4.9 4.0	
572	1st PTE_J 50% OFFSET Average TIR:	5 6 - 10	100%	11-15						
		4.8 4.6	5.9 5.0	6.6 5.0	7.7 4.9	8.7 5.1		13.5 4.6	4.6 5.1	
615F	50% OFFSET	6-10 6-10	100%							
Average TIR: TASK CPL CURRENT MCPL	TASK CPL CURRENT MCPL	6.7 3.0	7.7	8.7 2.6	9.5 2.4	10.2 1.8		11.9 2.1	1.3 0.7	

	MOC		1	2	3	YEAR 4	5	• • •	10	15
	625F	1st PTE_J 50% OFFSET Average TIR:	4 NIL							
		TASK CPL CURRENT MCPL	6.3 3.8				10.4 3.2		9.8 3.9	4.0 1.4
	631	1st PTE_J 50% OFFSET Average TIR:	1 4	100%	6-10					
		TASK CPL CURRENT MCPL	5.9 4.5			9.3 3.7	10.3 4.3		2.8 5.7	1.7 3.5
	651	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%	15+					
		TASK CPL CURRENT MCPL	6.5 3.5			9.6 4.1			15.4 4.7	1.9 2.8
	717F 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MCPL	50% OFFSET Average TIR:		100%						
		CURRENT MCPL	3.5	5.5 3.2	6.6 3.2	7.6 3.5			8.5 4.5	4.7 3.0
	725F	1st PTE_J 50% OFFSET Average TIR:	5 NIL							
		TASK CPL CURRENT MCPL	5.1	6.0 -	6.9 -	8.0	8.7		8.4	7.0 -
	811	1st PTE_J 50% OFFSET Average TIR:	2 5	100%						
		TASK CPL CURRENT MCPL		5.4 3.4		7.4 4.5	8.5 5.0		7.1 4.0	3.5 3.4
•	831	1st PTE_J 50% OFFSET Average TIR:	3	100%						
		TASK CPL CURRENT MCPL				7.2 3.9	8.1 4.5		7.6 4.0	3.6 3.0
	841	1st PTE_J 50% OFFSET Average TIR:		100%						
		TASK CPL CURRENT MCPL	5.2 3.1	6.1 3.2	7.1 3.7	8.1 4.1	9.0 4.5		9.8 3.2	2.2

MOC	,	1	2	3	YEAR 4	5	•••	10	15
851	1st PTE_J 50% OFFSET Average TIR:	NIL NIL							
	TASK CPL CURRENT MCPL		6.3 3.1		6.8 3.5	7.2 3.8		8.3 4.0	3.9 1.9
861	1st PTE_J 50% OFFSET Average TIR:	3 5	100%	6-10					
	TASK CPL CURRENT MCPL		5.4 3.9		7.3 5.0			10.1 6.0	5.3 3.8
862	1st PTE_J 50% OFFSET Average TIR:	4 6 - 10	100%	6-10					
	TASK CPL CURRENT MCPL	3.4 2.7	4.4	5.5 2.5	6.6 2.4	7.8 2.4		10.1	
871 1st PTE_J 50% OFFSET Average TIR: TASK CPL CURRENT MC	50% OFFSET	-							
	TASK CPL CURRENT MCPL	_							
881	1st PTE_J 50% OFFSET Average TIR:	3 5		NIL					
	TASK CPL CURRENT MCPL				11.2 3.5			3.7 4.1	1.8 2.2
911	1st PTE_J 50% OFFSET Average TIR:	4 6-10	100%						
	TASK CPL CURRENT MCPL	4.4 2.9			7.7 4.4			10.7 4.3	
921	1st PTE_J 50% OFFSET Average TIR:	2 2	100%						
	TASK CPL CURRENT MCPL	3.2 3.4	4.1 3.7	5.0 4.0	5.9 4.7	6.5 5.1		5.6 5.5	
933	1st PTE_J 50% OFFSET Average TIR:		100%					 -	
	TASK CPL CURRENT MCPL	5.5 4.1	6.5 4.1	7.2 3.8	8.1	8.9 4.2		7.1 3.6	

					YEAR	t			
MOC		1	2	3	4	5	• • •	10	15
935	1st PTE_J 50% OFFSET Average TIR:	5 6 - 10	100%	11-1	.5				
	TASK CPL CURRENT MCPL	6.3 4.7	7.1 4.8		8.9 4.9	9.9 4.9		14.2 4.1	1.8 4.7

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ANNEX B

	SUMMARY - MOC						
Year	1st Promo to Pte_J			Pte_J ML	100% Pte_J PML		
	#	8	#	8	#	%	
0	0	0	3	4.7	0	0	
1	26	40.6	3	4.7	1	1.6	
2	5	7.8	7	10.9	1	1.6	
3	8	12.5	6	9.4	1	1.6	
4	12	18.8	6	9.4	4	6.2	
5	3	4.7	9	14.1	0	o	
6 - 10	5	7.8	21	32.8	34	53.1	
11- 15	0	0	o	О	7	10.9	
Never	0	0	4	6.2	11	17.2	
N/A	5 ————	7.8	5	7.8	5	7.8	
Total	64	100.0	64	100.0	64	100.0	

Table B1. MOC Frequency Achieving Various Pte_J Levels, By Year

	SUMMARY - PML							
Year	1st Promo to Pte_J		50% Pt PML	e_J	100% Pt PML	100% Pte_J PML		
	#	%	#	8	#	%		
0	0	0	2736	4.2	0	0		
1	21637	33.4	1128	1.8	356	0.5		
2	5134	7.9	8147	12.6	48	0.1		
3	12527	19.3	7260	11.2	679	1.0		
4	13395	20.7	2538	3.9	1486	2.3		
5	4293	6.6	11343	17.5	0	0		
6 - 10	6258	9.7	27093	41.8	38018	58.7		
11- 15	0	0	0	0	16700	25.8		
Never	0	0	2999	4.6	5957	9.2		
N/A	1553	2.4	1553	2.4	1553	2.4		
Total	64797	100.0	64797	100.0	64797	100.0		

Table B2. Sum of Pte_J PMLs for MOCs Achieving Various Pte_J Levels, By Year

Year	MOCs
0	Nil
1	022, 031, 042F, 052, 065, 111, 121, 141, 151, 161, 171, 191, 262, 273, 274, 275, 276, 286F, 291, 321, 421, 435F, 441, 631, 831, 841
2	224F, 231, 331F, 811, 921
3	011, 021, 211, 525F, 551, 717F, 861, 881
4	181, 314F, 411, 541, 561, 562, 563, 625F, 651, 862, 911, 933
5	572, 725F, 935
6 - 10	212, 341F, 513F, 531, 615F
11- 15	Nil
Never	Nil
N/A	081, 091, 131, 851, 871

Table B3. MOC Breakdown by time of first promotion of Pte(J).

Year	MOCs
0	021, 065, 273
1	022, 141, 276
2	031, 121, 151, 191, 262, 291, 921
3	042F, 111, 171, 275, 286F, 831
4	161, 231, 274, 421, 435F, 631
5	011, 052, 211, 441, 525F, 551, 811, 861, 881
6 - 10	181, 212, 224F, 314F, 321, 411, 513F, 531, 541, 561, 562, 563, 572, 615F, 651, 717F, 841, 862, 911, 933, 935
11- 15	Nil
Never	331F, 314F, 625F, 725F
N/A	081, 091, 131, 851, 871

Table B4. MOC Breakdown by time to achieve 50% of PTE(J) PML.

Year	MOCs
0	Nil
1	273
2	151
3	022
4	065, 121, 276, 921
5	Nil
6 - 10	011, 021, 031, 042F, 052, 111, 141, 181, 191, 211, 212, 224F, 231, 262, 274, 275, 286F, 321, 421, 525F, 541, 551, 561, 562, 563, 615F, 631, 717F, 811, 831, 841, 861, 862, 933
11- 15	291, 411, 513F, 531, 572, 911, 935
Never	161, 171, 314F, 331F, 341F, 435F, 441, 625F, 651, 725F, 881
N/A	081, 091, 131, 851, 871

Table B5. MOC Breakdown by time to achieve 100% of Pte(J) PML.

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